

**WHAT IS CLAIMED IS:**

1. A digital camera that produces a display image signal for display on a display and a recording image signal for record to a recording medium on the basis of a camera signal outputted from an image sensor in response to a picture-taking instruction,

5 comprising:

a first writer for writing the camera signal to a first area of a memory;

a reader for reading the camera signal from said first area;

a first producer for producing the recording image signal based on the camera  
signal read out by said reader;

10 a second producer for producing the display image signal based on the recording  
image signal;

a second writer for writing the display image signal to a second area of said  
memory; and

a third writer for writing the recording image signal to a third area of said memory;

15 wherein an access speed to said memory is three times greater or more than a  
processing speed by said first producer and said second producer.

2. A digital camera according to claim 1, further comprising a buffer memory to be  
accessed at a first clock rate and a second clock rate of three times greater or more than  
the first clock rate, wherein a difference between the access speed to said memory and the  
20 processing speed of said first and second producers is absorbed by said buffer memory.

3. A digital camera according to claim 1, wherein said second producer makes a  
resolution-reducing process on the recording image signal to thereby produce the display  
image signal.

4. A digital camera according to claim 1, wherein said memory has a single data  
25 input/output port.

5. A digital camera according to claim 1, wherein the camera signal is a raw image signal that each pixel has any one color component, and the display image signal and the recording image signal being both YUV-type signals.

6. A digital camera according to claim 1, further comprising an outputter for outputting the display image signal to said display by reading same from said second area, and a recorder for recording the recording image signal to said recording medium by reading same from said third area.

7. A digital camera that produces a display image signal for display on a display and main and size-reduced image signals for recording to a recording medium, on the basis of a camera signal outputted from an image sensor in response to a picture-taking instruction, comprising:

a first producer for producing the main image signal on the basis of the camera signal;

a second producer for producing the display image signal by making a resolution-reducing process on the main image signal; and

a third producer for producing the size-reduced image signal by making a resolution-reducing process on the display image signal.

8. A digital camera according to claim 7, wherein the main image signal, the display image signal and the size-reduced image signal are signals of the same type, and the main image signal having a resolution higher than a resolution of the display image signal and the display image signal having a resolution higher than a resolution of the size-reduced image signal.

9. A digital camera according to claim 7, wherein the camera signal is a raw image signal that each pixel has any one color component, and the main image signal, the display image signal and the size-reduced image signal being YUV-type signals.

10. A digital camera according to claim 7, further comprising a first writer for writing the main image signal produced by said first producer to said first memory; a second writer for writing the display image signal produced by said second producer to a second memory, a reader for reading the display image signal from said second memory and supplying same to said third producer, and a third writer for writing the size-reduced image signal produced by said third producer to a third memory.

11. A digital camera according to claim 10, further comprising an outputter for outputting the display image signal stored in said second memory to said display, and a recorder for recording the main image signal stored in said first memory and the size-reduced image signal stored in said third memory to said recording medium.